

### Abstract of the Disclosure

An electronic processing device for producing digitally processed audio-signal effects is provided. The electronic processing device comprises, an audio-signal input circuitry for receiving an audio input signal from a peripheral audio device, an audio-signal output circuitry for outputting the received audio-signal, the signal comprising a throughput signal after signal processing, a digital signal processor for applying audio-signal effects to the throughput audio-signal, one or more memory slots for receiving one or more modular memory components and an input control mechanism for controlling parameters of the throughput audio-signal. The one or more modular memory components are used as storage for externally sourced audio-signal effects such that when the one or more memory components are plugged into the electronic processing device, the processing device may utilize the effects applications stored on the one or more memory components in the processing of the throughput audio-signal. In preferred embodiments, the audio-effects applications are sourced on and retrieved from a data-packet-network through network-connection capability. In some embodiments, the electronic device is capable of independent network access and download of the effects applications and in other cases, a network host computer is used and the electronic device synchronizes to obtain new applications. Downloading the effects applications to the modular memory components for insertion into the device is also taught.

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